

CLAIMS

What is claimed is:

1. A system for mapping payload data to spreadsheet lists, the system comprising:
5 a spreadsheet storage unit adapted to store spreadsheet data including at least one spreadsheet list;
a payload data storage unit adapted to store payload data; and
a mapping unit adapted to receive spreadsheet data from said spreadsheet storage unit, receive payload data from said payload data storage unit, and map said payload data to said
10 at least one spreadsheet list.
2. The system of claim 1, wherein said at least one spreadsheet list includes extensible markup language (XML) lists.
- 15 3. The system of claim 1, wherein the system further comprises:
a user interface adapted to receive said at least one mapped spreadsheet list from said mapping unit and display said at least one mapped spreadsheet list to a user.
4. The system of claim 1, wherein the system further comprises:
20 a network interface adapted to receive said at least one mapped spreadsheet list from said mapping unit and provide said at least one mapped spreadsheet list to a network.
5. The system of claim 1, wherein said at least one spreadsheet list includes at least one field path associated with said payload data, and wherein said mapping unit is further adapted to
25 determine at least one parent path from said at least one field path.
6. The system of claim 5, wherein said mapping unit is further adapted to designate a bottom path from said at least one parent path, wherein said bottom path includes a longest path of said at least one parent path.
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7. The system of claim 6, wherein said mapping unit is further adapted to designate at least one bind node from said bottom path by applying said bottom path to said payload data.

8. The system of claim 7, wherein said mapping unit is further adapted to map said at least one bind node to a row in a spreadsheet list.

9. The system of claim 8, wherein said row includes a plurality of fields, and wherein said mapping unit is further adapted to obtain values for said plurality of fields by using said bottom path and said at least one bind node with said payload data.

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10. A method for mapping payload data to spreadsheet lists, the method comprising the steps of:

receiving spreadsheet data including at least one spreadsheet list, wherein said at least one spreadsheet list includes at least one path associated with a field;

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receiving payload data, wherein said payload data is associated with said spreadsheet data; and

mapping said payload data to said at least one spreadsheet list by using said at least one path.

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11. The method of claim 10, wherein mapping said payload data to said at least one spreadsheet list by using said at least one path further comprises the steps of:

generating a set of parent paths for said at least one path;

designating a parent path of said set of parent paths as a bottom path; and

generating a set of nodes from payload data, wherein said set of nodes is

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generated by evaluating said bottom path on said payload data.

12. The method of claim 11, wherein mapping said payload data to said at least one spreadsheet list by using said at least one path further comprises the steps of:

mapping a node of said set of nodes to a row of said at least one spreadsheet list;

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and

retrieving a value of said field within said row by tracing said bottom path to said at least one path associated with said field within said spreadsheet data.

13. The method of claim 11, wherein generating a set of parent paths for said at least one path comprises the steps of:

enumerating said at least one path of said spreadsheet data;
following enumerated said at least one path back to a previous field; and
inserting a path associated with said previous field into said set of parent paths.

14. The method of claim 11, wherein designating a parent path of said set of parent paths as a bottom path comprises the steps of:

determining a longest parent path of said set of parent paths, wherein a first parent path is designated as said longest parent path if more than one parent path qualifies as said longest parent path; and

designating said longest parent path as a bottom path.

15. A computer-readable medium comprising computer-executable instructions for mapping payload data to spreadsheet lists, the computer-executable instructions performing the steps of:

receiving spreadsheet data including at least one spreadsheet list, wherein said at least one spreadsheet list includes at least one path associated with a field;

receiving payload data, wherein said payload data is associated with said spreadsheet data; and

mapping said payload data to said at least one spreadsheet list by using said at least one path.

16. The computer-readable medium of claim 15, wherein mapping said payload data to said at least one spreadsheet list by using said at least one path further comprises the steps of:

generating a set of parent paths for said at least one path;
designating a parent path of said set of parent paths as a bottom path; and
generating a set of nodes from payload data, wherein said set of nodes is

generated by evaluating said bottom path on said payload data.

17. The computer-readable medium of claim 16, wherein mapping said payload data to said at least one spreadsheet list by using said at least one path further comprises the steps of:

mapping a node of said set of nodes to a row of said at least one spreadsheet list;

5 and

retrieving a value of said field within said row by tracing said bottom path to said at least one path associated with said field within said spreadsheet data.

18. The computer-readable medium of claim 16, wherein generating a set of parent paths for said at least one path comprises the steps of:

enumerating said at least one path of said spreadsheet data;

following enumerated said at least one path back to a previous field; and

inserting a path associated with said previous field into said set of parent paths.

19. The computer-readable medium of claim 16, wherein designating a parent path of said set of parent paths as a bottom path comprises the steps of:

determining a longest parent path of said set of parent paths, wherein a first parent path is designated as said longest parent path if more than one parent path qualifies as said longest parent path; and

designating said longest parent path as a bottom path.